

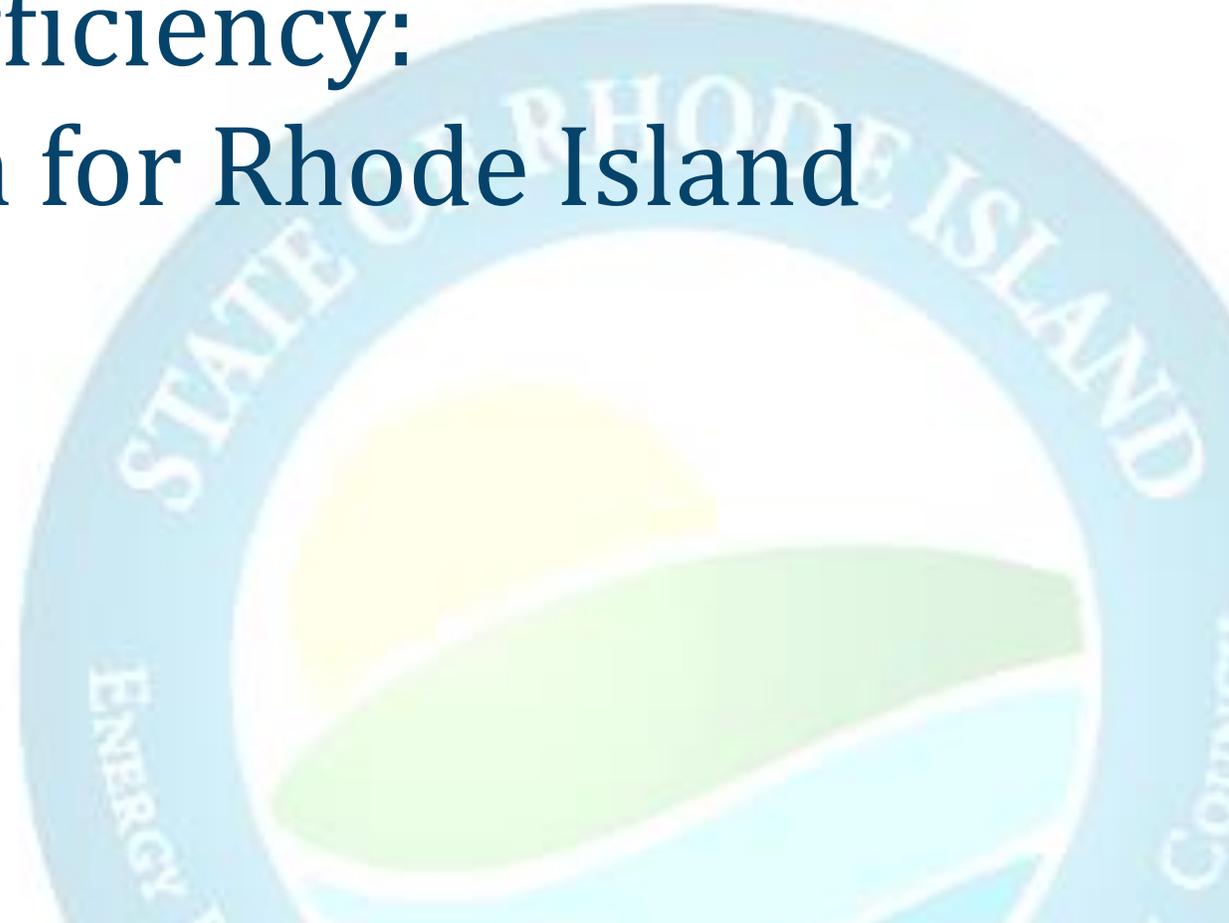


STATE OF RHODE ISLAND

# ENERGY EFFICIENCY & RESOURCE MANAGEMENT COUNCIL

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## Energy Efficiency: A Winning Solution for Rhode Island





# Meeting our Energy Needs

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- Good news: our energy needs are met reliably and safely
- Not-so-good news
  - Higher energy costs than most of the country
  - Energy costs affect state and local economy
  - Power production and distribution have negative environmental and health impacts
- Best news: Energy Efficiency is lowest-cost supply and avoids negative impacts



# Bad news/Good news

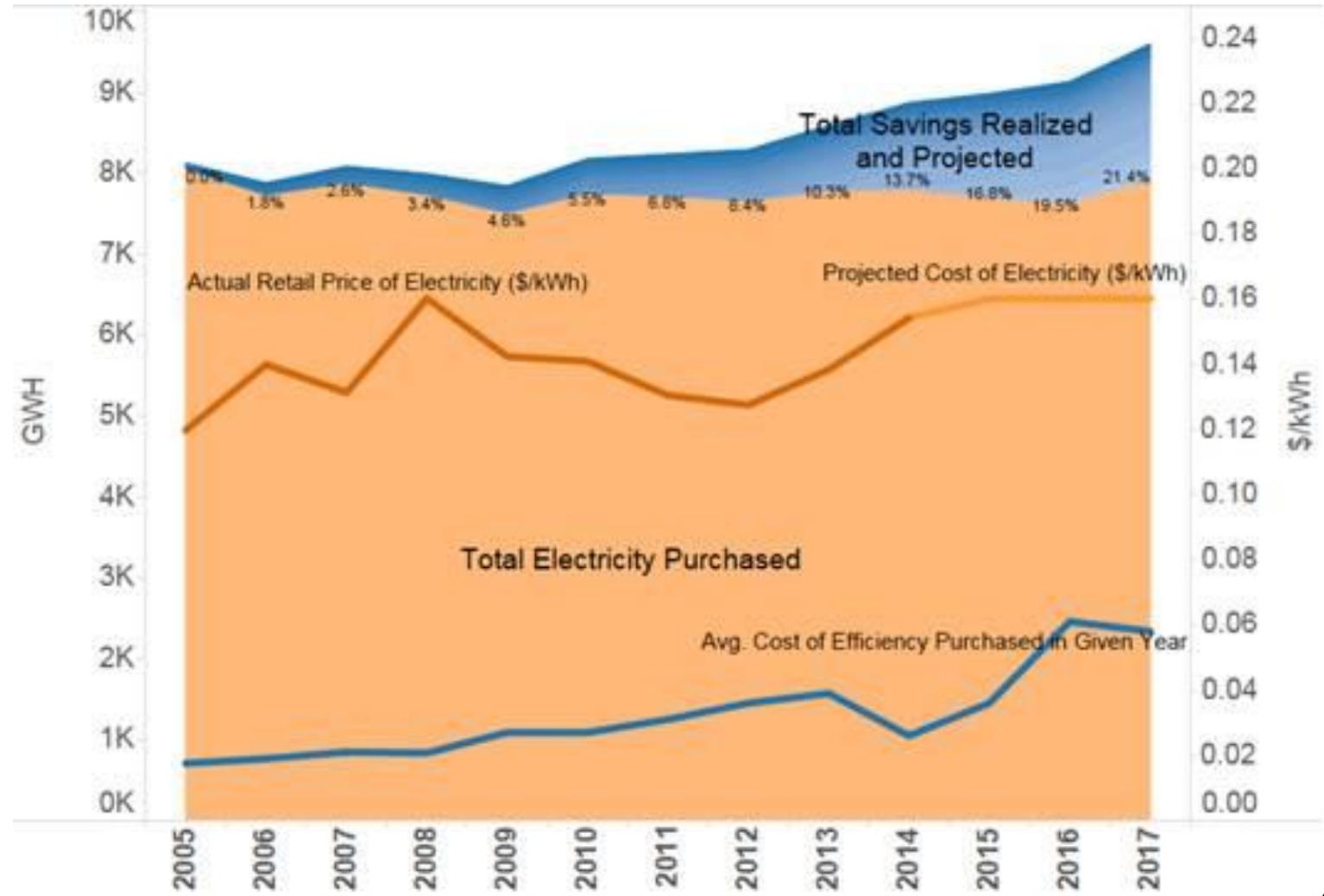
## High Energy Costs

- We're at the end of regional gas supply lines
- Natural climate variability requires high peak load capacity
- Older infrastructure costs more to maintain



# Bad news/**Good** news

Energy efficiency is the cheapest supply





# Bad news/Good news

State and local economic impacts - Energy costs displace:

- Spending by residential customers on necessities, enrichment, and local purchases
- Spending by businesses for capital investment, training, wages, profitability, and stability
- Public spending on infrastructure and social services



# Bad news/**Good** news

## Energy efficiency supports state and local economies

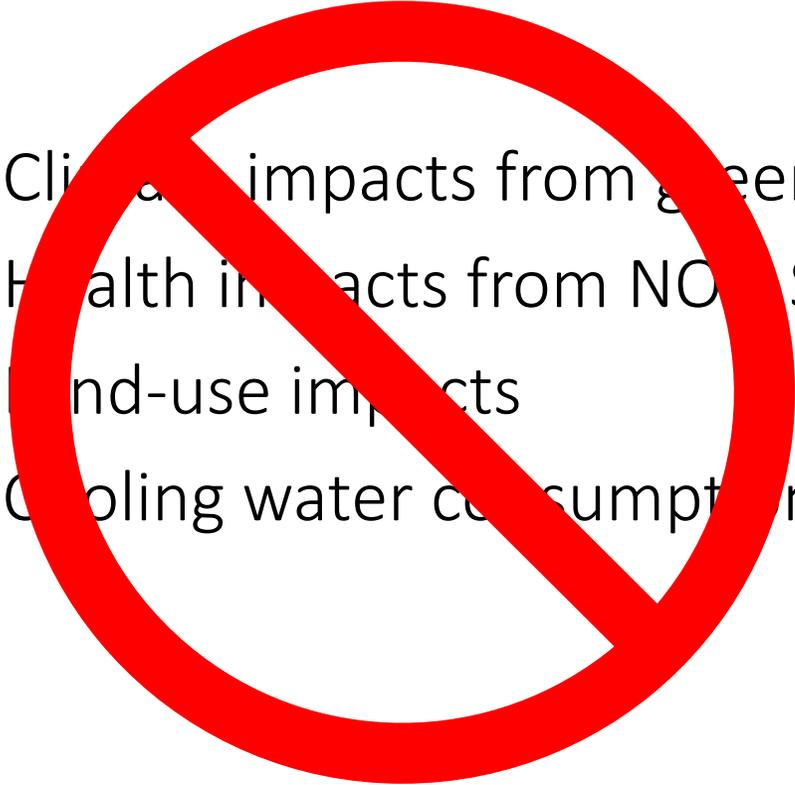
- More consumer spending stays local: shopping, restaurants, home improvements, business expansion, and equipment upgrades
- Spending EE “supply” supports local businesses and creates jobs, instead of supporting jobs in shale-gas fields in and out-of-state power plants
- For state government and municipalities, tax revenue can supply other critical funding needs



# Bad news/Good news

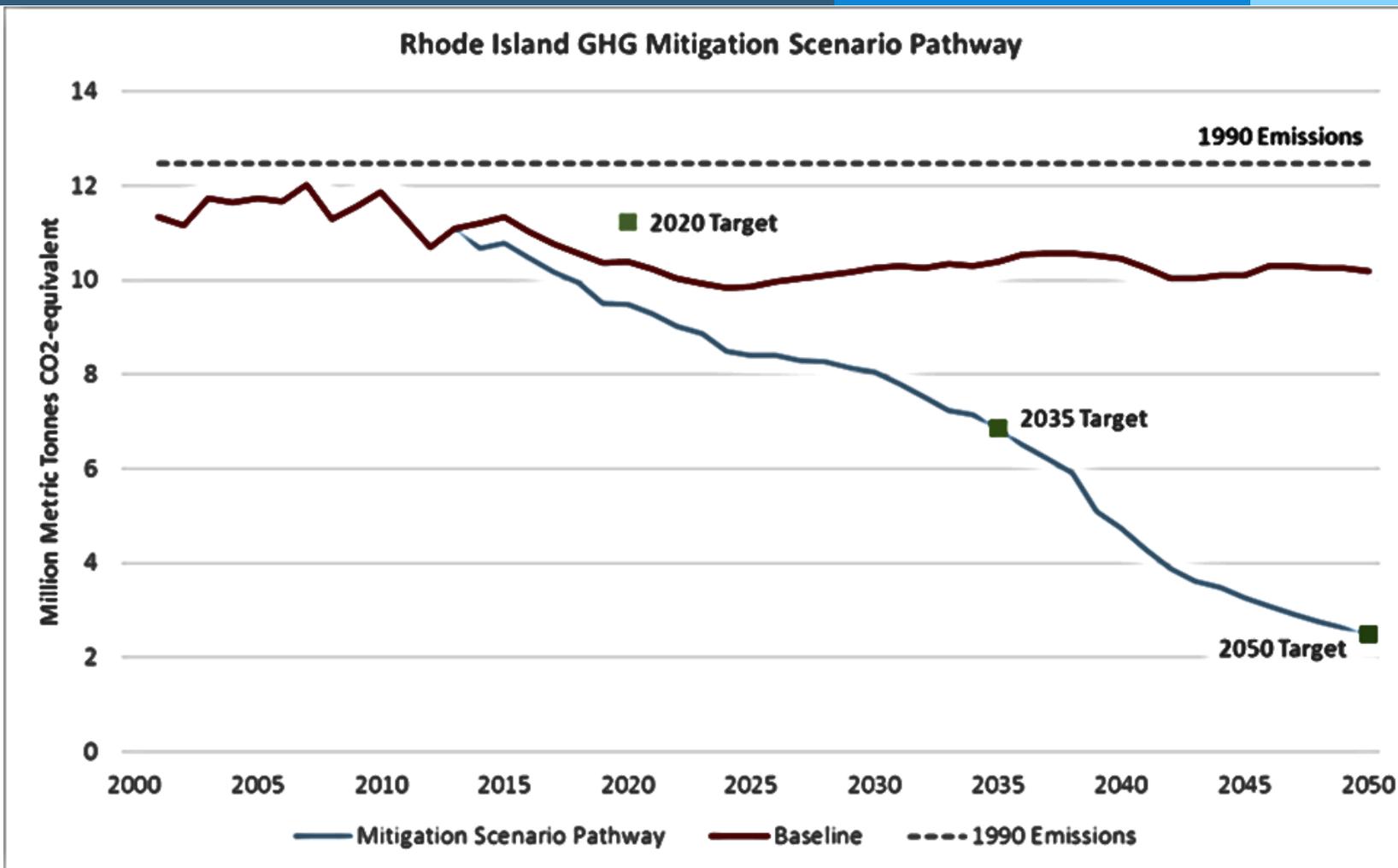
Negative environmental and health impacts from power production

- Climate impacts from greenhouse gas emissions
- Health impacts from NO<sub>x</sub>, SO<sub>x</sub>, particulates
- Land-use impacts
- Cooling water consumption



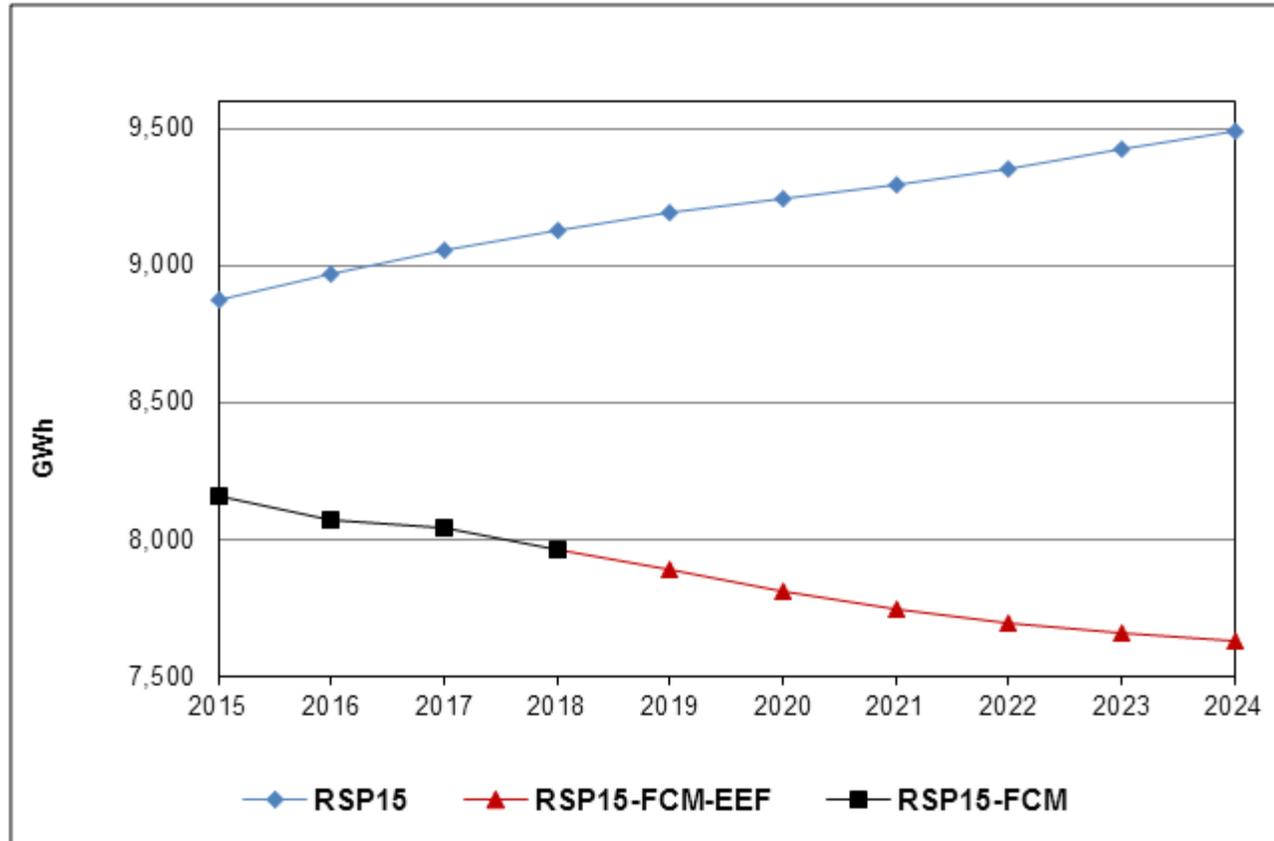


# Efficiency's Role in GHG Mitigation





# Energy Efficiency is Good News!



Avoided bad news!  
~1,900 GWh  
\$200 million/year

Figure 5-14: Net energy-use load forecast for Rhode Island (diamond), net energy-use load forecast minus FCM #9 results through 2018 (square), and load forecast minus FCM results and minus the energy-efficiency forecast (triangle) for 2019 to 2024 (GWh).



# Resiliency Bonus

An *energy-efficient* Rhode Island is a *resilient* Rhode Island





# And the **Best** News



Five cents spent on efficiency supports RI businesses (insulator, electrician, engineer, builder)

Five cents saved gets spent elsewhere in the economy to meet other resident and business needs



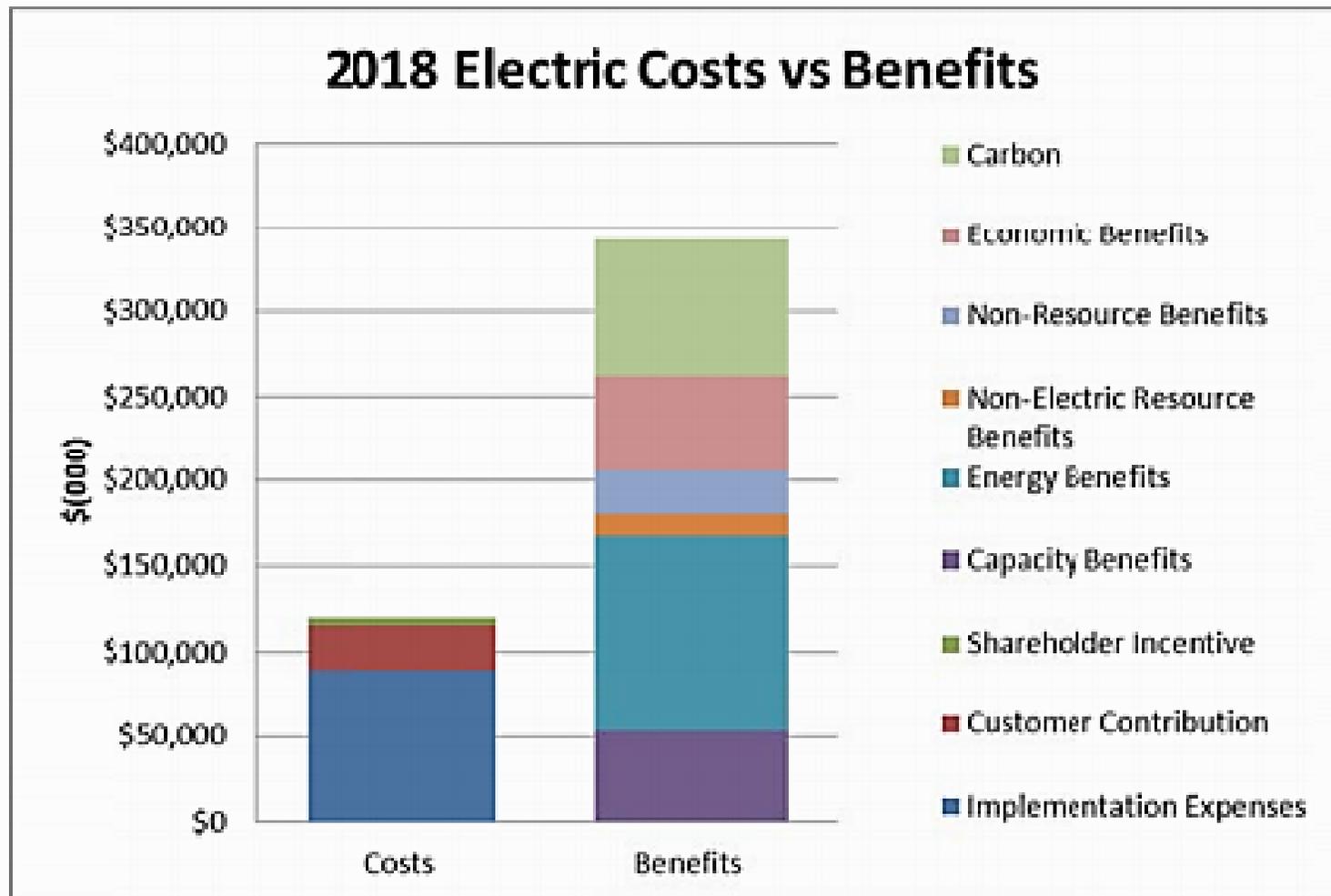
# Annual Report: Another Place to Find Good News

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- Benefits Details
- Bill Savings
- Job Impacts



# Benefits Detail





# Electric Bill Savings

Customer Class	Average Participant Bill Savings	Average Customer Bill Savings
Residential	1.6%	1.4%
Income-eligible	3.7%	3.5%
Small Commercial	15.8%	0.8%
Medium Commercial	11.6%	1.4%
Large C&I	5.4%	2.4%



# Gas Bill Savings

Customer Class	Average Participant Bill Savings	Average Customer Bill Savings
Residential	0.9%	0.5%
Income-eligible	8.3%	1.8%
Small Commercial	3.2%	<0.1%
Large Commercial	2.2%	0.8%



# Job Impacts

In 2016, Energy Efficiency supported

**702 FTE jobs...**

**in 923 firms...**

**of which 82% were located in Rhode Island**



# In Summary

## Energy efficiency...

- Reduces the cost of energy supply
- Saves customers money
- Provides environmental and health benefits
- Boosts the local economy